Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Final Review: Units 1 and 2

1. Write a rule for the following transformations and explain how you know the two shapes are congruent.



1.  Given point J is (2, -3), point A is (2, 5), and point B is (4, 4), reflect $∆JAB$ over the line y=x.
2.  Complete the following transformations.

1. What sequence of transformations will carry the pre-image to the final image in the drawing?
* First Transformation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Rule: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Second Transformation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Rule: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



1. Label the quadrants on the

graph.

1. Which quadrant is the only

one that does not contain

a triangle?

For numbers 7 & 8, use what you know about isometric transformations to find all missing measurements.

Q

P

12cm

P’

15cm

R

R’

Q’

A’

B’

C’

11

7

13

1.

52°

47°

1. For the following diagrams. Set up an equation to solve for x. Write a justification for your equation.











1. For the following diagrams. Set up an equation to solve for x. Write a justification for your equation.

1.   12.
2. $\overbar{LM}$ is the perpendicular bisector of $\overbar{AB}$. Find the values of x and y.

 $AP=4x+42$

 $BP=9x-3$ x=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 $∠APM=2y+16$

 y=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. $\overbar{MO}$ bisects $∠$AOB. Find the values of p, ∠AOM, ∠MOB, and ∠AOB.

∠MOB = 3p+6 p=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

∠AOM= 4p-18

 ∠AOM= \_\_\_\_\_\_\_\_\_\_\_

∠MOB= \_\_\_\_\_\_\_\_\_\_\_

∠AOB= \_\_\_\_\_\_\_\_\_\_\_